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MEC Keypad Part Number MEC-0011 General Specification

The keypad is a translucent silicone rubber keypad with designed to be used with backlighting. It consists of 6 compressible keys and 3 non-compressible LED window protrusions. The compressible keys should have a stroke of 1mm +/- 0.1 mm and have a maximum force of 140 grams +/- 15 grams. The snap ratio should be in the range of 40-50%. Graphics should be coated for wear/chemical resistance. Air channels are not shown but are allowed on the backside from key to key. No through perforations are allowed (sealed application). Carbon conductors of the highest quality should be used to achieve minimum possible resistance on switch closure.

Drawing Notes:

General:

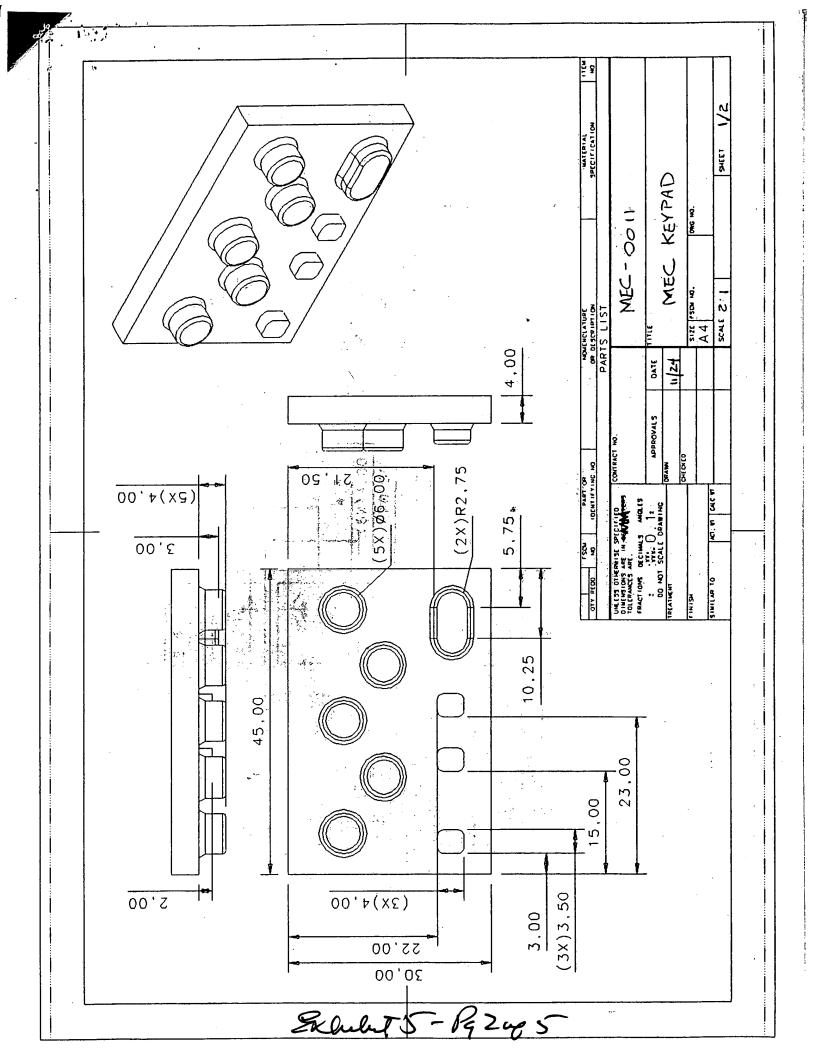
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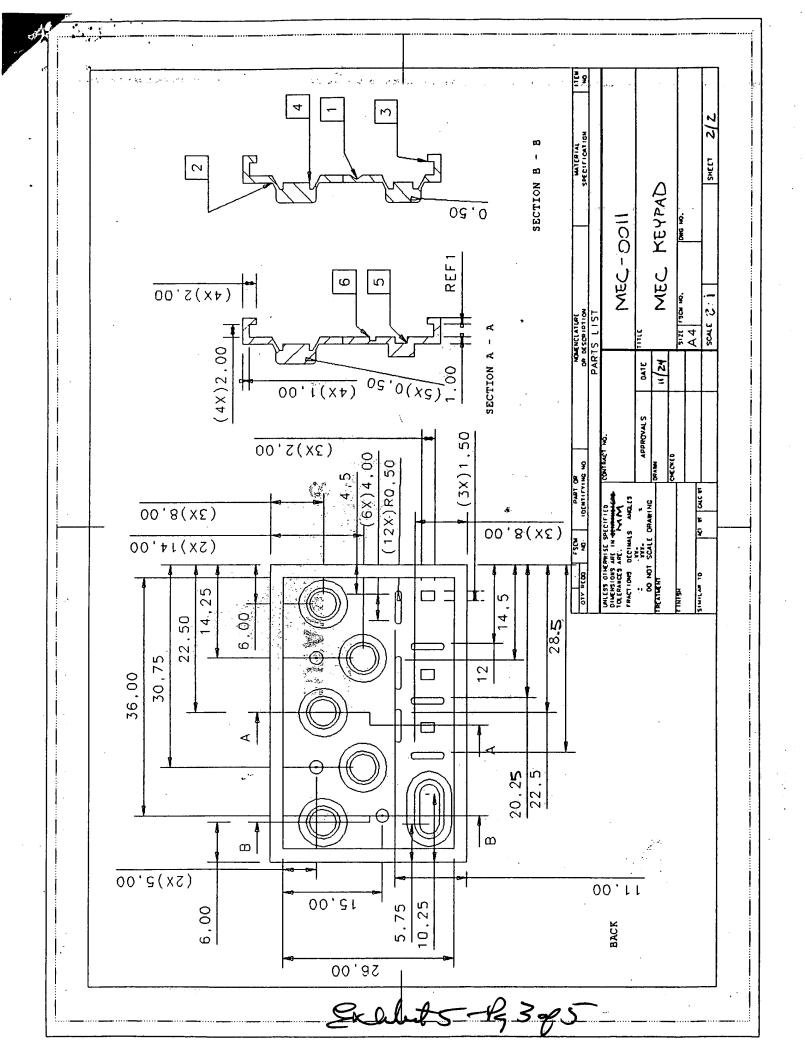
Compressible keys have 0.5mm radius on key top edge, LED window protrusions have a sharp top edge. See attachment for legend information.

- 1. Conical depressions (3X), 2mm in diameter, 30 degree chamfer.
- 2. Web to be designed as per the force specification but should not extend more than 1mm beyond the solid key periphery,
- 3. Feature to extend the full perimeter of the keypad.
- 4. Carbon conductors are 4mm diameter (5X) and 3X5.5 (1X).
- 5. LED relief features (3X) to be 0.9mm in depth.
- 6. Channels (6X) to be 1mm wide and 0.5mm in depth. Positioning dimensions to channels are to the theoretical centerline of 0.5 mm radius end features.

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Exhbt 5 - Pg 1005





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ELITE SALES & TECHNOLOGY, LTD.

4904 Comella Drive Raleigh, NC 27603-4204 USA
Phone: 919 772-7042 / Fax: 919 772-8073 / E-mail: eliterales@eliterales.com / http://www.eliterales.com

FACSIMILE QUOTATION FORM

Date:	Friday, November 28, 1997	No. of Pages:	1 of 2
To:	Mr Tony Hancock	Ref. No.:	ES-11287A
Company:	MEC, Inc.	Phone No.:	606 299-2870
Address:	1783 from Works Road Lexington, KY 40511	Fax No.:	606 299-7885
Subject	Flite Quotation # 1.1166 P/N MEC-0011	Code:	455

Dear Tony:

Listed below is our quotation covering your recent request for pricing. Please carefully review the notes section to confirm that all required product features will be provided. If quotation comparisons are made, please pay close attention to the listed product features and the number of production tool cavities as these items will affect unit pricing...

TOOLING

Proto-Type Tool	\$ 2,200.00	Production 1001	\$ 5.000
The state of the s	10-, (included)	No. of Cavities	48 (48 pcs. included)
The section of the section and the section of the s		Lead Time for First	
Lead Time	25 - 30 Days	Article Parts	30 - 35 Days

UNIT PRICE

Proto-Type Samples	Price Each	Lead Time	Prod. Qty.	Price Each	Lead Time
1 - 50	\$600	25 = 30 Days	1,000	\$ 0.31	30 - 35 Days
um y – rannana yann, sarra <u>qay ilgadina intersonishinte di konoritationin adalah</u> asa sababbas sabibbas sabib			5,000	\$ 0.26	30 - 35 Days
Barreline Administrativa (1904) program yr ddiddiddiddiddiddiddiddiddiddiddiadae acebr (1904) yr diddiddiddiddiddiddiddiddiddiadae (1904) (1904) yr diddiddiddiddiddiddiddiddiddiddiddiddid			10,000	\$ 0.23	30 - 35 Days
enteres e e e e e e e en enteres enteres enteres en enteres en	The same of the sa	*********	25,000	\$ 0.22	30 - 35 Days
and the second of the second o			50,000	\$ 0.21	.30 - 35 Days
a kindi dan data wangangan mangangan katinga satum nga samunin menencia pangat mandagan sanah dalah	The second secon				

(All Lead times are expressed as business days shipped from Taiwan and order placement)

NOTES:

Shipment Terms - FOB Talwan Shipment Method: FedEx

One (1) base material color and One (1) printing color. Conductive carbon pills

Parts will be supplied to print / notes requirements.

Landed USA pricing furnished upon request. / Please review attached Feature Chart Rologe quantity changes may effect pricing. Skip dates are bus, days from order placement. OHF / CIF pricing includes sid shipping methods only. Special shipping chas, invoiced separately. All rubber parts are manufactured to standard "Ultra-Precise" tolerance tevels. Price breaks are based on new orders only, not the accumulated quantities of existing PO(s).

TERMS:

rigit 30 (with approved credit) = 50% of tooling charge due at order placement. Balance due upon receipt of proto-type samples and/or first article parts. Quoted pricing will be firm for thirty (30) days only. New / first time orders must be submitted with three (3) Trade and one (1) bank reference(s).

Elite Sales & Technology, Ltd. acts as an independent United States sales agent for domestic and international manufacturers and suppliers. Elite Sales, at no time and in no manner may be held responsible for claims regarding defective parts, delayed shipments or any other dispute involving these represented manufacturers or suppliers. By accepting Elite's quotation and issuing a purchase order, the customer agrees to these conditions. Elite Bales will always make every effort to assist the customer in malfacts concerning disputes and advertised product warranty.

Thank you for the opportunity to offer this quotation. If accepted, every effort will be made to supply the very best in quality parts and quatomer service. We will always represent your company's best interest to our

Suppliers

Exhibit 5-19 4 ag 5

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919 772 8073 FPOH ELITE SALES TECH

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ELITE'S QUOTED KEYPAD FEATURES

Elite Quotation Number 1116	6 Quotation Date	11/28/97	Page 2
This chart is provided to explain de review, particularly if quotation concompetitive if the same keypad fe	ifferent keypad features that marisons are made. Elite is	,	requires. Please our pricing will be very
The same of the sa	A A A A A A A A A A A A A A A A A A A		

competiti	ve if the same keypad features are quoted by all suppliers.
Ge	enerally, to higher the number of cavities the lower the unit cost but the higher the tool cost. The enerally, to higher the number of cavities the lower the unit cost but the higher the tool cost. The enerally, to higher the number of tool imber of tool cavities can be limited by the individual keypad size. When selecting the number of tool imber of tool cavities can be limited by the individual keypad size. When selecting the number of tool cavities the supplier/ toolmaker will consider what is in the best interest of the customer and what is
fe:	ATERIAL DUROMETER: (Hardness) OIL + SOLVENT RESISTANCE ne higher the durometer number the harder the material. Generally, keypad/keytop durometers range om 50° to 80° durometers. Some keypads may require "dual durometers" which refers to the keypad om 50° to 80° durometers. Some keypads may require "dual durometers" which refers to the keypad om 50° to 80° durometers. Dual
M	urometer requirements will dramatically affect pricing. ATERIAL COLOR: Lenerally listed as translucent or colored. Almost any color is available if color chart reference number is enerally listed as translucent or different colors will affect pricing.
D A	RINTING/GRAPHIC COLOR: BLACIDE And reference number is provided. The number of different colors almost any color is available if color chart reference number is provided. The number of different colors
4	CARBON PILL CONDUCTIVE CONTACTS: CARBON PILL CONDUCTIVE CONTACTS: CARBON PILL CONDUCTIVE CONTACTS: CARBON PILL CONDUCTIVE CONTACTS: CARBON PILL CONDUCTIVE pill, gold and silver. Conductive pills conductive contact types are conductive ink, conductive pill, gold and silver. Conductive pills conductive pills conductive pills conductive pill, gold and silver. Conductive pills conductive pill.
V	AIR CHANNELS.
	MOUNTING BOSS:
	LASER ETCHED PRINTING TECHNOLOGY: When the light should only penetrate the
	REYTOP OVERCOAT: Clear citizens ink applied over the printed graph: A two coats can be applied and will extend the
1	SEALPLAST PROTECTIVE COATING: SEALPLAST PROTECTIVE COATING: Shown to be one of the best available protective coatings available. This spray technology can be supplied in a matter or glossy finish and will increase the printing life by some 15 times. It also prevents supplied in a matter or glossy finish and will increase the printing life by some 15 times. It also prevents supplied in a matter or glossy finish and will increase the printing life by some 15 times. It also prevents
	moisture and oils penetration. Sealplast also moisture and oils penetration. Sealplast also moisture and oils penetration. Sealplast also moverall keypad size. "his technology will affect pricing depending on overall keypad size. KEYPAD MEMBRANE ASSEMBLY: Standard keypad with an attached domed membrane panel. Conductive contacts can be etched carbon. Standard keypad with an attached domed membrane panel. Conductive contacts can be etched carbon. Standard keypad with an attached domed membrane panel. The membrane is aligned and attached by the keypad manufacturer (important) affect origing.

silver or gold. The membrane is aligned and attached by the keypad manufacturer (important) and provides a very low profile keypad with good "tactile feel". This feature will dramatically affect pricing

Clear epoxy resin molded to keytop for an improved cosmetic appearance and extended printed life. This technology will dramatically affect pricing

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